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INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

Applicant's or agent's file reference	1			
NEU202-11.2	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PC)		ion of Transmittal of International Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/mo	nth/year)	Priority date (day/month/year)	
PCT/IL03/00240	20 March 2003 (20.03.2003)	•	08 April 2002 (08.04.2002)	
International Patent Classification (IPC)	or national classification and IPC	C°78	ਭ ਹੜ	
IPC(7): A61K 9/14 and US Cl.: 424/486		\$ ()	lease.	
Applicant				
NEURIM PHARMACEUTICALS LTD.	. (1991) LTD.			
This international prelimin Examining Authority and	nary examination report has been is transmitted to the applicant a	en prepared by according to A	this International Preliminary rticle 36.	
2. This REPORT consists of	a total of Sheets, including	this cover she	et.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a	total of sheets.			
3. This report contains indica	tions relating to the following	items:		
I Basis of the repo	ort			
II Priority			D _E	
III Non-establishme	ent of report with regard to nov	elty, inventive	step and industrial applicability	
IV Lack of unity of	invention		4	
V Reasoned statem	nent under Article 35(2) with reations and explanations suppor	gard to novelt	y, inventive step or industrial	
VI Certain documen		ang saon sawa	At a second	
	n the international application			
	ions on the international applic	ation		
Date of submission of the demand	Date	of completion	of this report	
26 September 2003 (26.09.2003)		tober 2004 (18.1	(0.2004)	
Name and mailing address of the IPEA/U Mail Stop PCT, Attn: IPEA/US	S Auito	rized officer	2 00 11 0	
Commissioner for Patents P.O. Box 1450	LES ES	SING FUBARA	30d Harrifa	
Alexandria, Virginia 22313-1450	Teleni	one No. (571)	· · · · · · · · · · · · · · · · · · ·	
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(July 19	•		2,2 1000	

INTERNATIONAL PRELIMI	Y	EXAMINATION REPORT
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International application No.	
PCT/IL03/0024	

<u> </u>		is of the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed.
	\bowtie	the description:
		pages 1-20 as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of
		the claims;
	ĽΊ	pages 23 and 24 , as originally filed
		pages NONE, as amended (together with any statement) under Article 19
		pages NONE rate, filed with the demand
_		pages 21 and 22 , filed with the letter of 05 July 2004 (05.07.2004)
•		the drawings.
		the drawings: pages NONE , as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
		pages NONE , as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of
2.	With	a regard to the language, all the elements marked above were available or furnished to this Authority in the
	langu	lage in which the international application was filed, unless otherwise indicated under this item
	These	e elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With intern	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
	$\overline{}$	contained in the international application in printed form.
		filed together with the international application in computer readable form.
	Щ	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.	\Box ;	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
uus	Replace repon	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in t as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). placement sheet containing such amendments must be referred to under item 1 and annexed to this report.

International application No. PCT/IL03/0024	-
PC1/1L03/0024	

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v. Reasoned statement under Rule 66.2(a)(ii) citations and explanations supporting such	with regard to novelty, inventive step or industrial applicant statement	ability;
1. STATEMENT		
Novelty (N)	Claims 1-28 Claims NONE	YES NO
Inventive Step (IS)	Claims 1-28 Claims NONE	YES
Industrial Applicability (IA)	Claims 1-28 Claims NONE	YES NO

2. CITATIONS AND EXPLANATIONS

Claims 1-28 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the composition of claims 15 and the method of claim 1.

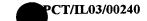
In response to applicants' argument, claims 1-14 are treated as method claims.

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Mendel teaches a composition that comprises melatonin and trazodone or zaleplon or zolpidem and carrier; the composition is useful in treating sleep disorder including insomnia (column 29, line 13 to column 34 line 33). The amendment of claim 15 removes

Claims 1-28 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box V) (July 1998)



- 1. Use of melatonin in the manufacture of a medicament effective for the short-term potentiation of the hypnotic effect of at least one compound selected from the group consisting of non-barbiturate and non-benzodiazepine hypnotics.
- 2. Use according to claim 1, which is further characterized by at least one of the following features:
- (a) at 6 said hypnotics are GABA-A receptor modulators;
- (b) said hypnotics are compounds which include a fused-ring system containing ring nitrogen;
- (c) said medicament comprises at least one carrier, diluent, coating or adjuvant;
- (d) said medicament is in unit dosage form;

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- (e) said medicament includes at least one compound selected from the group consisting of non-barbiturate and non-benzodiazepine hypnotics;
- (f) said at least one compound is present in said medicament and in an amount which, if administered in absence of melatonin, would be a sub-therapeutic amount;
- (g) said medicament is adapted for sustained release of melatonin.
- 3. Use according to claim 2, wherein said medicament includes at least one acrylic resin and is adapted for sustained release of melatonin.
- 4. Use according to claim 3, wherein said medicament is further adapted for regular release of said at least one compound.
- 5. Use according to any one of claims 1 to 4, wherein said at least one compound comprises a bicyclic fused ring system.
- 6. Use according to claim 5, wherein said bicyclic fused ring system includes at least two ring nitrogen atoms.
- 7. Use according to claim 6, wherein said bicyclic ring system comprises a pyrazolo[1,5-a]pyrimidine skeleton.

- PCT/IL03/00240 WO 03/086352 8. Use according to claim 7, wherein said at least one compedend comprises zalepion.
- Use according to claim 6, wherein said bicyclic ring system comprises an 9. imidazo[1,2,-a]pyridine skeleton.

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- Use according to claim 9, wherein said at least one hypnotic comprises 10. # Esses the be zolpidem. 1414 By Track Style
- Use according to claim 6, wherein said bicyclic ring system comprises a 11. pyrrolo[3,4-b]pyrazine skeleton.
- Use according to claim 11, wherein said at least one hypnotic comprises 12. zopiclone.
- Use according to claim 6, wherein said bicyclic ring system comprises a 13. triazolo[4,3-a]-pyridine skeleton.
- Use according to claim 13, wherein said at least one hypnotic comprises 14. trazodone.
- A pharmaceutical formulation which comprises, in addition to at least one 15. carrier, diluent, coating or adjuvant:

at least one compound selected from the group consisting of non-barbiturate and non-benzodiazepine hypnotics, and melatonin in an amount and form effective for short term potentiation of the hypnotic effect of said at least one compound.

- A pharmaceutical formulation according to claim 15, which is further 16. characterized by at least one of the following features:
- said hypnotics are GABA-A receptor modulators; (a)
- said hypnotics are compounds which include a fused-ring system containing (b) ring nitrogen;
- said formulation is in unit dosage form; (c)

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